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3	4	((("mutually-exclusive" or "mutually exclusive") and @ad<20010202) and (synonym\$1 same specification\$1 and @ad<20010202)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:27
4	111	synonym\$1 with specification\$1 and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:27
5	3	((("mutually-exclusive" or "mutually exclusive") and @ad<20010202) and (4951196.pn. 6070149.pn. 5963939.pn. 5987440.pn. 6081789.pn. 6064981.pn. 6052669.pn. 5799151.pn. 5890138.pn. 5758126.pn. 5799284.pn. 5940807.pn. 5500793.pn.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:29
6	0	dictionary same database same discription same noun and Reed and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:31
7	27	dictionary and database and description and noun and Reed and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:31
8	16	(dictionary same database and description and noun and Reed and @ad<20010202) and list\$2 and element\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:32
9	9	read\$3 adj2 "first list"and dictionary and database and description and "second list" and "third list" and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:32
10	3	read\$3 adj2 "first list"and dictionary and database and description and "second list" and "third list" and @ad<20010202 and (search\$3 or retriev\$3) and description and noun	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:33
11	2	("free form" adj5 (serch\$3 or quer\$3) and "mutually exclusive" and @ad<20010202) and noun and synonym\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:33
12	4	"free form" adj5 (serch\$3 or quer\$3) and "mutually exclusive" and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:33
13	12	read\$3 and "first list" and ("first element" or element\$2) and ("dictionary database" or dictionary) and description and "second list" and ("second element" or element\$2) and "third list" and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:34
14	3	(list\$3 same dictionar\$ same database\$2).ti. and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:35
15	348	list\$3 same dictionar\$ same database\$2 and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:35

16	74	(first adj1 (list or database or table)) and (second adj1 (list or database or table)) and (third adj1 (list or database or table)) and ("dictionary database" or dictionary) and description and input\$4 and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:36
17	203	dictionary and database and description and "mutually exclusive" and @ad<20010202	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:36
18	0	((("first list" or "first-list" ) and ("mutually-exclusive" or "mutually exclusive") and @ad<20010202) and (synonym\$1 with specification\$1 and @ad<20010202)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:36
19	65	(list\$3 same dictionar\$3 same database\$2).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/02 15:37

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**1 Avoiding unknown states when scanning mutually exclusive latches**
*Pateras, S.; Schmookler, M.S.;*

 Test Conference, 1995. Proceedings., International , 21-25 Oct. 1995  
 Pages:311 - 318

[\[Abstract\]](#)   [\[PDF Full-Text \(512 KB\)\]](#)   IEEE CNF

**2 Register allocation for data flow graphs with conditional branches and loops**
*Park, C.; Kim, T.; Liu, C.L.;*

 Design Automation Conference, 1993, with EURO-VHDL '93. Proceedings EUR DAC '93. European , 20-24 Sept. 1993  
 Pages:232 - 237

[\[Abstract\]](#)   [\[PDF Full-Text \(524 KB\)\]](#)   IEEE CNF

**3 An algorithm to determine mutually exclusive operations in behavior descriptions**
*Li, J.; Gupta, R.K.;*

 Design, Automation and Test in Europe, 1998., Proceedings , 23-26 Feb. 1998  
 Pages:457 - 463

[\[Abstract\]](#)   [\[PDF Full-Text \(224 KB\)\]](#)   IEEE CNF

**4 Classifying gene expression data of cancer using classifier ensemble with mutually exclusive features**
*Sung-Bae Cho; Jungwon Ryu;*

 Proceedings of the IEEE , Volume: 90 , Issue: 11 , Nov. 2002  
 Pages:1744 - 1753

[\[Abstract\]](#) [\[PDF Full-Text \(824 KB\)\]](#) [\[Full-Text HTML\]](#) [IEEE JNL](#)

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**5 Modeling mutually exclusive events in fault trees**

*Twigg, D.W.; Ramesh, A.V.; Sandadi, U.R.; Sharma, T.C.;*

Reliability and Maintainability Symposium, 2000. Proceedings Annual, 24-27 2000

Pages:8 - 13

[\[Abstract\]](#) [\[PDF Full-Text \(252 KB\)\]](#) [IEEE CNF](#)

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**6 Bounds on the effects of replication on availability**

*Raab, L.;*

Management of Replicated Data, 1992., Second Workshop on the, 12-13 Nov 1992

Pages:44 - 46

[\[Abstract\]](#) [\[PDF Full-Text \(240 KB\)\]](#) [IEEE CNF](#)

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**7 Science-philosophy celebrity death match**

*Colwell, B.;*

Computer, Volume: 35, Issue: 12, Dec. 2002

Pages:13 - 15

[\[Abstract\]](#) [\[PDF Full-Text \(274 KB\)\]](#) [IEEE JNL](#)

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**8 Mutually exclusive behavior of In and N atom in highly strained GaInNAs/GaAs quantum wells by MOCVD**

*Bing-Ruey Wu; Kun-Fu Huang; Nien-Tz Yeh; Wen-Jang Ho;*

Lasers and Electro-Optics, 2002. CLEO '02. Technical Digest. Summaries of Papers Presented at the, 19-24 May 2002

Pages:633 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(243 KB\)\]](#) [IEEE CNF](#)

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**9 Dempster-Shafer theory and rule strengths in expert systems**

*Guan, J.; Bell, D.A.; Pavlin, J.; Lesser, V.R.;*

Reasoning Under Uncertainty, IEE Colloquium on, 22 May 1990

Pages:6/1 - 6/3

[\[Abstract\]](#) [\[PDF Full-Text \(188 KB\)\]](#) [IEEE CNF](#)

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**10 Scan Architecture With Mutually Exclusive Scan Segment Activation Shift- and Capture-Power Reduction**

*Rosinger, P.; Al-Hashimi, B.M.; Nicolici, N.;*

Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on, Volume: 23, Issue: 7, July 2004

Pages:1142 - 1153

[\[Abstract\]](#) [\[PDF Full-Text \(664 KB\)\]](#) [IEEE JNL](#)

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**11 Probabilistic model of a two-site wind energy conversion system**

*Karaki, S.H.; Salim, B.A.; Chedid, R.B.;*

Energy Conversion, IEEE Transactions on, Volume: 17, Issue: 4, Dec. 2002

Pages:530 - 536

[\[Abstract\]](#) [\[PDF Full-Text \(445 KB\)\]](#) **IEEE JNL**

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**12 Phrenology, astrology, risk, and product quality**

*Colwell, B.;*

Computer , Volume: 35 , Issue: 1 , Jan. 2002

Pages:12 - 14

[\[Abstract\]](#) [\[PDF Full-Text \(146 KB\)\]](#) **IEEE JNL**

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**13 Reliability and flexibility-a mutually exclusive problem for robotic assembly?**

*Wilson, M.S.;*

Robotics and Automation, IEEE Transactions on , Volume: 12 , Issue: 2 , Apr

Pages:343 - 347

[\[Abstract\]](#) [\[PDF Full-Text \(560 KB\)\]](#) **IEEE JNL**

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**14 Time, Petri nets, and robotics**

*Freedman, P.;*

Robotics and Automation, IEEE Transactions on , Volume: 7 , Issue: 4 , Aug.

Pages:417 - 433

[\[Abstract\]](#) [\[PDF Full-Text \(1576 KB\)\]](#) **IEEE JNL**

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**15 Effective heuristic algorithms for VLSI-circuit partition**

*Tao, L.; Zhao, Y.C.;*

Circuits, Devices and Systems, IEE Proceedings G , Volume: 140 , Issue: 2 , , 1993

Pages:127 - 134

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#### 1 Derivation of MCNMRD from modern Chinese machine dictionary

Zhai Gaoshou; Zhang Yongkui; Yang Erhong; Cha Jianzhong;

 Intelligent Processing Systems, 1997. ICIPS '97. 1997 IEEE International Conference on , Volume: 2 , 28-31 Oct. 1997  
 Pages:1809 - 1813 vol.2

[\[Abstract\]](#)
[\[PDF Full-Text \(497 KB\)\]](#)
**IEEE CNF**

#### 2 Construction of semantic classification hierarchy of Chinese nouns

Zhai Gaoshou; Zhang Yongkui; Yang Erhong;

 TENCON '02. Proceedings. 2002 IEEE Region 10 Conference on Computers, Communications, Control and Power Engineering , Volume: 1 , 28-31 Oct. 2002  
 Pages:427 - 430 vol.1

[\[Abstract\]](#)
[\[PDF Full-Text \(388 KB\)\]](#)
**IEEE CNF**

#### 3 Issues in generating pronunciation dictionaries for voice interfaces spatial databases

Ngan, J.; Picone, J.;

 Southeastcon '97. 'Engineering new New Century'. Proceedings. IEEE , 12-14 1997  
 Pages:97 - 99

[\[Abstract\]](#)
[\[PDF Full-Text \(304 KB\)\]](#)
**IEEE CNF**

#### 4 An advanced system to generate pronunciations of proper nouns

Deshmukh, N.; Ngan, J.; Hamaker, J.; Picone, J.;

 Acoustics, Speech, and Signal Processing, 1997. ICASSP-97., 1997 IEEE International Conference on , Volume: 2 , 21-24 April 1997  
 Pages:1467 - 1470 vol.2

[\[Abstract\]](#)   [\[PDF Full-Text \(348 KB\)\]](#)   IEEE CNF

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**5 A processing system for programming specifications in a natural language**

*Seki, H.; Nabika, E.; Matsumura, T.; Sugiyama, Y.; Fujii, M.; Torii, K.; Kasan*  
System Sciences, 1988. Vol.II. Software Track, Proceedings of the Twenty-Fifth Annual Hawaii International Conference on , Volume: 2 , 5-8 Jan. 1988  
Pages:754 - 763

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# 1 [Types and persistence in database programming languages](#)

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2Full text available: [pdf\(7.91 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

# 2 [Limitations of record-based information models](#)

William Kent

March 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 1Full text available: [pdf\(2.14 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Record structures are generally efficient, familiar, and easy to use for most current data processing applications. But they are not complete in their ability to represent information, nor are they fully self-describing.

**Keywords:** conceptual model, data model, entities, first normal form, information model, normalization, records, relationships, semantic model

# 3 [HSGIMS—a secure high-speed tool with bound search times for transparently managing and manipulating information](#)


P. A. D. de Maine

December 1993 **Proceedings of the second international conference on Information and knowledge management**Full text available: [pdf\(534.39 KB\)](#)
 Additional Information: [full citation](#), [references](#), [index terms](#)

# 4 [System structure and software maintenance performance](#)

Virginia R. Gibson, James A. Senn

March 1989 **Communications of the ACM**, Volume 32 Issue 3

Full text available:  [pdf\(1.65 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An experiment is designed to investigate the relationship between system structure and maintainability. An old, ill-structured system is improved in two sequential stages, yielding three system versions for the study. The primary objectives of the research are to determine how or whether the differences in the systems influence maintenance performance; whether the differences are discernible to programmers; and whether the differences are measurable. Experienced programmers perform a portfolio ...

5 [Multiprogramming Coordination](#)

Leon Presser

January 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 1


Full text available:  [pdf\(1.59 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 [A comparison of the concurrency features of Ada 95 and Java](#)

Benjamin M. Brosgol

November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 annual ACM SIGAda international conference on Ada**, Volume XVIII Issue 6

Full text available:  [pdf\(1.99 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Ada, Java, concurrency, inheritance anomaly, object-oriented programming, tasking, threads

7 [Models of Computations and Systems—Evaluation of Vertex Probabilities in Graph Models of Computations](#)

David Martin, Gerald Estrin

April 1967 **Journal of the ACM (JACM)**, Volume 14 Issue 2

Full text available:  [pdf\(894.96 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper concerns itself with the modeling of computations and systems and the generation of a priori estimates of expected computation time for given problems on given processing systems. In particular, methods are discussed for determining the probabilities of reaching vertices in a graph model of computations.

8 [The application of sequential sampling to simulation: an example inventory model](#)

W. Earl Sasser, Donald S. Burdick, Daniel A. Graham, Thomas H. Naylor

May 1970 **Communications of the ACM**, Volume 13 Issue 5

Full text available:  [pdf\(1.04 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Four different sequential sampling procedures are applied to the analysis of data generated by a computer simulation experiment with a multi-item inventory model. For each procedure the cost of computer time required to achieve given levels of statistical precision is calculated. Also the cost of computer time using comparable fixed sample size methods is calculated. The computer costs of fixed sample size procedures versus sequential sampling procedures are compared.

**Keywords:** experimental design, inventory models, models, sequential sampling, simulation

9 Synthesis of concurrent systems with many similar processes

Paul C. Attie, E. Allen Emerson

January 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 20 Issue 1

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Methods for synthesizing concurrent programs from temporal logic specifications based on the use of a decision procedure for testing temporal satisfiability have been proposed by Emerson and Clarke and by Manna and Wolper. An important advantage of these synthesis methods is that they obviate the need to manually compose a program and manually construct a proof of its correctness. One only has to formulate a precise problem specification; the synthesis method then mechanically constructs a ...

**Keywords:** concurrent programs, program synthesis, temporal logic

10 A taxonomy for identifying a software component for uncertain and partial specifications

Giancarlo Succi, Francesco Baruchelli, Marco Ronchetti

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available:  pdf(1.07 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** classification, retrieval, reuse, uncertain specifications

11 The specification and enforcement of authorization constraints in workflow management systems

Elisa Bertino, Elena Ferrari, Vijay Atluri

February 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2  
Issue 1

Full text available:  pdf(374.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


In recent years, workflow management systems (WFMSs) have gained popularity in both research and commercial sectors. WFMSs are used to coordinate and streamline business processes. Very large WFMSs are often used in organizations with users in the range of several thousands and process instances in the range of tens and thousands. To simplify the complexity of security administration, it is common practice in many businesses to allocate a role for each activity in the process and then assign ...

**Keywords:** access control, authorization constraints, role and user planning

12 Form management

D. Tschritzis

July 1982 **Communications of the ACM**, Volume 25 Issue 7

Full text available:  pdf(2.78 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper consists of three interrelated parts. In the first part forms are introduced as an abstraction and generalization of business paper forms. A set of facilities for the

manipulation of forms and their contents is outlined. Forms can be created, stored, found, viewed in different media, mailed, and located by office workers. Data on forms can also be processed in a completely integrated way. The facilities are discussed both abstractly and in relation to a prototype ...

**Keywords:** database management, office modeling, office procedures

13 [A flexible model supporting the specification and enforcement of role-based authorization in workflow management systems](#)

Elisa Bertino, Elena Ferrari, Vijayalakshmi Atluri

November 1997 **Proceedings of the second ACM workshop on Role-based access control**

Full text available:  [pdf\(1.37 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 [Protection and the control of information sharing in multics](#)

Jerome H. Saltzer

July 1974 **Communications of the ACM**, Volume 17 Issue 7

Full text available:  [pdf\(1.75 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




The design of mechanisms to control the sharing of information in the Multics system is described. Five design principles help provide insight into the tradeoffs among different possible designs. The key mechanisms described include access control lists, hierarchical control of access specifications, identification and authentication of users, and primary memory protection. The paper ends with a discussion of several known weaknesses in the current protection mechanism design.

**Keywords:** Multics, access control, authentication, computer utilities, descriptors, privacy, proprietary programs, protected subsystems, protection, security, time-sharing systems, virtual memory

15 [Understanding semantic relationships](#)

Veda C. Storey

October 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 4

Full text available:  [pdf\(1.83 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)



To develop sophisticated database management systems, there is a need to incorporate more understanding of the real world in the information that is stored in a database. Semantic data models have been developed to try to capture some of the meaning, as well as the structure, of data using abstractions such as inclusion, aggregation, and association. Besides these well-known relationships, a number of additional semantic relationships have been identified by researchers in other disciplines such ...


**Keywords:** database design, database design systems, entity-relationship model, relational model, semantic relationships

16 [Applicative caching: Programmer control of object sharing and lifetime in distributed implementations of applicative languages](#)

Robert M. Keller, M. Ronan Sleep

April 1974 **ACM SIGPLAN Notices , Proceedings of the 1981 conference on Functional programming languages and computer architecture**, Volume 9 Issue 4




Full text available:  [pdf\(671.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The "referential transparency" of applicative language expressions demands that all occurrences of an expression in a given context yield the same value. In principle, that value therefore needs to be computed only once. However, in recursive programming, a context usually unfolds dynamically, precluding textual recognition of multiple occurrences, so that such occurrences are recomputed. To remedy the lack, in applicative languages, of an ability to store ...

### 17 [Practical safety in flexible access control models](#)

Trent Jaeger, Jonathon E. Tidswell

May 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 2

Full text available:  [pdf\(346.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Assurance that an access control configuration will not result in the leakage of a right to an unauthorized principal, called *safety*, is fundamental to ensuring that the most basic of access control policies can be enforced. It has been proven that the safety of an access control configuration cannot be decided for a general access control model, such as Lampson's access matrix, so safety is achieved either through the use of limited access control models or the verification of safety via ...

**Keywords:** Access control models, authorization mechanisms, role-based access control

### 18 [Lexical rules in constraint-based grammars](#)

Ted Briscoe, Ann Copestake

December 1999 **Computational Linguistics**, Volume 25 Issue 4


Full text available:  [pdf\(2.62 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)  
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Lexical rules have been used to cover a very diverse range of phenomena in constraint-based grammars. Examination of the full range of rules proposed shows that Carpenter's (1991) postulated upper bound on the length of list-valued attributes such as SUBCAT in the lexicon cannot be maintained, leading to unrestricted generative capacity in constraint-based formalisms utilizing HPSG-style lexical rules. We argue that it is preferable to subdivide such rules into a class of semiproductive lexical ...

### 19 [A taxonomy of computer program security flaws](#)

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi

September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Full text available:  [pdf\(3.81 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

**Keywords:** error/defect classification, security flaw, taxonomy

### 20 [Using histories to implement atomic objects](#)

Tony P. Ng

November 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 4

Full text available:  pdf(2.74 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this paper we describe an approach to implementing atomicity. Atomicity requires that computations appear to be all-or-nothing and executed in a serialization order. The approach we describe has three characteristics. First, it utilizes the semantics of an application to improve concurrency. Second, it reduces the complexity of application-dependent synchronization code by analyzing the process of writing it. Third, our approach hides the protocol used to arrive at a ser ...

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Full text available: pdf(4.21 MB)

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 March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(987.69 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Eugene J. Guglielmo, Neil C. Rowe

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Full text available:  [pdf\(572.05 KB\)](#)

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M. W. Bright, A. R. Hurson, S. Pakzad

June 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Full text available:  [pdf\(2.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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E. Damiani, M. G. Fugini, C. Bellettini

July 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 1

Full text available:  [pdf\(310.25 KB\)](#)

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October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8

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Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

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**Keywords:** Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

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April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Full text available:  [pdf\(429.27 KB\)](#)

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S. Castano, V. De Antonellis, M. G. Fugini, B. Pernici

September 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 3

Full text available:  [pdf\(350.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



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**Keywords:** conceptual modeling, reference components, schema classification, schema similarity

13 [The FINITE STRING Newsletter: Abstracts of current literature](#)

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January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

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July 1984 **Computational Linguistics**, Volume 10 Issue 3-4


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15 [An analysis of XML database solutions for the management of MPEG-7 media descriptions](#)

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available:  [pdf\(448.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


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**Keywords:** MPEG-7, XML database systems, multimedia databases

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January 1986 **Computational Linguistics**, Volume 12 Issue 1

Full text available:  [pdf\(2.24 MB\)](#)   
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19 [A semantic-based approach to component retrieval](#)

Vijayan Sugumaran, Veda C. Storey

August 2003 **ACM SIGMIS Database**, Volume 34 Issue 3

Full text available:  [pdf\(367.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


There continues to be a great deal of pressure to design and develop information systems within a period of time. This urgency has reinvigorated research on software reuse, particularly in component-based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

**Keywords:** component based development, domain model, ontology, reuse repository, systems development

20 [Database design with common sense business reasoning and learning](#)

Veda C. Storey, Roger H. L. Chiang, Debabrata Dey, Robert C. Goldstein, Shankar Sudaresan

December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4

Full text available:  [pdf\(1.30 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Automated database design systems embody knowledge about the database design process. However, their lack of knowledge about the domains for which databases are being developed significantly limits their usefulness. A methodology for acquiring and using general world knowledge about business database design has been developed and implemented in a system called the Common Sense Business Reasoner, which acquires facts about application domains and organizes them into a hierarchical





**Keywords:** common sense business reasoner, common sense learning, common sense reasoning, database design, entity-relationship model

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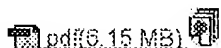
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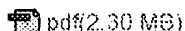
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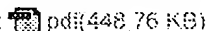
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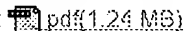
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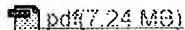
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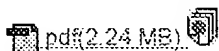


18 [The FINITE STRING newsletter: Abstracts of current literature](#)

Computational Linguistics Staff

January 1986 **Computational Linguistics**, Volume 12 Issue 1

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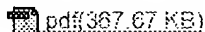
Additional Information: [full citation](#)

19 [A semantic-based approach to component retrieval](#)

Vijayan Sugumaran, Veda C. Storey

August 2003 **ACM SIGMIS Database**, Volume 34 Issue 3

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There continues to be a great deal of pressure to design and develop information systems within a period of time. This urgency has reinvigorated research on software reuse, particularly in component-based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

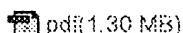
**Keywords:** component based development, domain model, ontology, reuse repository, systems development

20 [Database design with common sense business reasoning and learning](#)

Veda C. Storey, Roger H. L. Chiang, Debabrata Dey, Robert C. Goldstein, Shankar Sudaresan

December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Automated database design systems embody knowledge about the database design process. However, their lack of knowledge about the domains for which databases are being developed significantly limits their usefulness. A methodology for acquiring and using general world knowledge about business database design has been developed and implemented in a system called the Common Sense Business Reasoner, which acquires facts about application domains and organizes them into a hierarchical

**Keywords:** common sense business reasoner, common sense learning, common sense reasoning, database design, entity-relationship model

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Relevance

### 1 [Lexical rules in constraint-based grammars](#)

Ted Briscoe, Ann Copestake

December 1999 **Computational Linguistics**, Volume 25 Issue 4

Full text available: [pdf\(2.82 MB\)](#)  
[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Lexical rules have been used to cover a very diverse range of phenomena in constraint-based grammar. Examination of the full range of rules proposed shows that Carpenter's (1991) postulated upper bound on the length of list-valued attributes such as SUBCAT in the lexicon cannot be maintained, leading to unbounded generative capacity in constraint-based formalisms utilizing HPSG-style lexical rules. We argue that it is preferable to subdivide such rules into a class of semiproductive lexical rules ...

### 2 [Spoken dialogue technology: enabling the conversational user interface](#)

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: [pdf\(987.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Spoken dialogue systems allow users to interact with computer-based applications such as database expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. It is only within the last decade or so, with major advances in speech technology, that large-scale systems have been developed and, in some cases, introduced into commerce ...

**Keywords:** Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

### 3 [A corpus-based investigation of definite description use](#)

Massimo Poesio, Renata Vieira

June 1998 **Computational Linguistics**, Volume 24 Issue 2

Full text available: [pdf\(2.41 MB\)](#)  
[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


We present the results of a study of the use of definite descriptions in written texts aimed at assessing the feasibility of annotating corpora with information about definite description interpretation. We ran experiments, in which subjects were asked to classify the uses of definite descriptions in a corpus of newspaper articles, containing a total of 1,412 definite descriptions. We measured the agreement

annotators about the classes assigned to definite descriptions, as well as t ...

#### 4 An Improved Context-Free Recognizer

Susan L. Graham, Michael Harrison and Walter L. Ruzzo

July 1980 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 2 I

Full text available:  [pdf\(2.79 MB\)](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

A new algorithm for recognizing and parsing arbitrary context-free languages is presented, and se results are given on the computational complexity of these problems. The new algorithm is of both and theoretical interest. It is conceptually simple and allows a variety of efficient implementations, worked out in detail. Two versions are given which run in faster than cubic time. Surprisingly close connections between the Cocke-Kasami-Younger and Earley algorithms ...

#### 5 Systemic classification and its efficiency

Chris Brew

December 1991 **Computational Linguistics**, Volume 17 Issue 4

Full text available:  [pdf\(2.20 MB\)](#)  [Publisher Site](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper examines the problem of classifying linguistic objects on the basis of information encod system network formalism developed by Halliday. It is shown that this problem is NP-hard, and a the formalism, which renders the classification problem soluble in polynomial time, is suggested. A for the unrestricted classification problem, which separates a potentially expensive second stage fi tractable first stage, is then presented.

#### 6 Bridging the gap: between accessibility and usability

Mary Frances Theofanos, Janice (Ginny) Redish

November 2003 **interactions**, Volume 10 Issue 6

Full text available:  [pdf\(963.51 KB\)](#)  [html](#) (48.56 KB)



Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Guidelines for Accessible---and Usable---Web Sites: Observing Users Who Work With Screenread

#### 7 Discovery procedures for sublanguage selectional patterns: initial experiments

Ralph Grishman, Lynette Hirschman, Ngo Thanh Nhan

July 1986 **Computational Linguistics**, Volume 12 Issue 3

Full text available:  [pdf\(1.09 MB\)](#)  [Publisher Site](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Selectional constraints specify, for a particular domain, the combinations of semantic classes acce subject-verb-object relationships and other syntactic structures. These constraints are important i incorrect analyses in natural language processing systems. However, these constraints are domain and hence must be developed anew when a system is ported to a new domain. A discovery proces selectional constraints is therefore essential in enhancing the portability ...

#### 8 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on proce diagrams are often used to obtain a better understanding of the execution of the application. The tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagr often very complex and do not provide the user with the desired overview of the application. In ou

experience, such tools display repeated occurrences of non-trivial commun ...


9 [Inference and Paraphrase by Computer](#)

Christopher K. Riesbeck, Roger C. Schank, Neil M. Goldman, Charles J. Rieger  
July 1975 **Journal of the ACM (JACM)**, Volume 22 Issue 3

Full text available:  [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

10 [The family of concurrent logic programming languages](#)

Ehud Shapiro  
September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available:  [pdf\(9.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Concurrent logic languages are high-level programming languages for parallel and distributed systems. They offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the ease of reading of programs and computations, the convenience of representing data structures with logic, and the amenability to metaprogramming ...

11 [Status report of the graphic standards planning committee](#)

Computer Graphics staff  
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available:  [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

12 [Types and persistence in database programming languages](#)

Malcolm P. Atkinson, O. Peter Buneman  
June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  [pdf\(7.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditionally, the interface between a programming language and a database has either been through relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These languages ...

13 [Explaining ambiguity in a formal query language](#)

Joseph A. Wald, Paul G. Sorenson  
June 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 2

Full text available:  [pdf\(2.86 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of generating reasonable natural language-like responses to queries formulated in nonnavigational query languages with logical data independence is addressed. An extended ER model, the Entity-Relationship-Involvement model, is defined which assists in providing a greater degree of logical data independence and the generation of natural language explanations of a query processor's interpretation of a query. These are accomplished with the addition of the concept of an involvement ...

14 [Default representation in constraint-based frameworks](#)

Alex Lascarides, Ann Copestake  
March 1999 **Computational Linguistics**, Volume 25 Issue 1


Full text available:  [pdf\(3.17 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)  
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Default unification has been used in several linguistic applications. Most of them have utilized default unification, as part of an extended description language. We propose that allowing default unification to be a binary, fully integrated part of a typed feature structure system requires default unification to be a binary, independent function, so that it acquires the perspicuity and declarativity familiar from normal unification based frameworks. Furthermore, in order to respect the behavior ...

15 [List ranking and list scan on the Cray C-90](#)

Margaret Reid-Miller

August 1994 **Proceedings of the sixth annual ACM symposium on Parallel algorithms and arc**

Full text available:  [pdf\(1.12 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

List ranking and list scan are two primitive operations used in many parallel algorithms that use list and graph data structures. But vectorizing and parallelizing list ranking is a challenge because it is communication intensive and dynamic. In addition, the serial algorithm is very simple and has very small constants. In order to compete, a parallel algorithm must also be simple and have small constants. An algorithm due to Wyllie is such an algorithm, but it is not ...

16 [Draft Proposed: American National Standard—Graphical Kernel System](#)

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 51



Full text available:  [pdf\(16.07 MB\)](#)

Additional Information: [full citation](#)

17 [The FINITE STRING Newsletter: Abstracts of current literature](#)

Computational Linguistics Staff


January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available:  [pdf\(6.15 MB\)](#)   
[Publisher Site](#)

Additional Information: [full citation](#)

18 [Revised report on the algorithmic language scheme](#)

N. I. Adams, D. H. Bartley, G. Brooks, R. K. Dybvig, D. P. Friedman, R. Halstead, C. Hanson, C. T. Ho, Kohlbecker, D. Oxley, K. M. Pitman, G. J. Rozas, G. L. Steele, G. J. Sussman, M. Wand, H. Abelson  
September 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 9


Full text available:  [pdf\(4.44 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

19 [Revised report on the algorithmic language scheme](#)

J Rees, W Clinger

December 1986 **ACM SIGPLAN Notices**, Volume 21 Issue 12



Full text available:  [pdf\(4.06 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

20 [Types in Functional Unification Grammars](#)

Michael Elhadad

June 1990 **Proceedings of the 28th conference on Association for Computational Linguistics**

Full text available:  [pdf\(350.61 KB\)](#)   
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Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)





Functional Unification Grammars (FUGs) are popular for natural language applications because the

uses very few primitives and is uniform and expressive. In our work on text generation, we have f  
also has annoying limitations: it is not suited for the expression of simple, yet very common, taxoi  
relations and it does not allow the specification of completeness conditions. We have implemented  
extension of traditional functional unification. This extension addresses the ...

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